

# The ILLINOIS ENGINEER

ILLINOIS SOCIETY OF PROFESSIONAL ENGINEERS  
INCORPORATED

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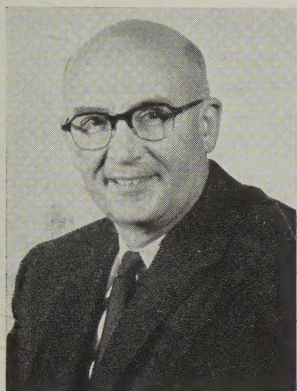
SUMMER ISSUE

SEPTEMBER, 1956

## ISPE SERVICE TO ENGINEERING COLLEGES

By ROYCE E. JOHNSON, President

Daily activities and interests are generally so engrossing that we are practically unaware of the very extensive technological and consequent sociological changes currently in progress. It is almost startling to look back at the last fifty years of progress and wonder how we could have been so unaware of it and what it was doing to our mode of living.



President Johnson

Progress obviously has been greatest in material things. In our homes we now have automatic heating systems, plumbing, refrigeration, automatic laundries, kitchen machinery galore and a distracting variety of communication devices. Industry is experiencing a second revolution. Labor and time-saving

devices are commonplace. Servo-controls, analogue and digital computers, nuclear fuel, radioisotopes and electronic techniques are changing products and production methods. In fact, it is only by such developments that there can be an expectation of maintaining our progressive high wage and living standards.

These and other accomplishments could not have taken place without scientists and engineers in continually increasing numbers. But this is no reason for engineers to feel that they have been unduly overloaded. Without other professionals, for example, teachers and professors, there would be no engineering profession as we know it. How often or extensively are they given due credit and reward for the accomplishments of engineers they have helped to educate?

In one respect educators are often in a position somewhat similar to that of an engineering specification writer who never is sent out on the job to see the practical results of his work or how it could have been improved. Fortunately, the converse situation is also present. Specification writers and educators have the opportunity, which they use when possible, to develop new ideas and set new standards.

Because engineering educators do a tremendous amount of study and planning to improve their effectiveness, systematic interest by our professional engineers' societies in educational programs, curricula and pedagogical techniques could well be beneficial to all concerned. The societies could provide information to the colleges on such subjects as the relative need and demand for more training in fundamentals of science, mathematics and physics, versus English, speech and practical application engineering courses. The societies might also be of assistance in working out improved methods of turning out the colleges' product. Communication in the reverse direction, i.e. from colleges to practicing engineers, could be carried on simultaneously. The rapid growth of scientific and engineering knowledge calls for continuing study and professional development by practicing engineers.

At this time of year it is quite natural to become aware of schools and educational problems. It is hoped that some of our readers will be motivated to write the Editor or officers about their ideas of how I. S. P. E. can render service toward obtaining an improved engineering college product.

## Results Constitutional Amendment Vote

A ballot authorizing the Board of Direction to establish functional sections in the Illinois Society was included with the July issue of the *Illinois Engineer*. Two-hundred-thirteen ballots were received, 204 voted yes, 5 voted no, 3 ballots were received from non-corporate members, and one from an unknown source signed "Joe."

The Constitution provides that two-thirds of those voting or a minimum of 50 "yes" ballots are necessary to adopt a Constitutional amendment. Therefore, the proposal had enough votes to be officially adopted.

The officers of Champaign County Chapter appointed by President Royce Johnson acted as a Tellers Committee: Edward R. Healy, Wendel F. Kent, Gordon V. Carlson, C. Dale Greffe and Ben F. Muirheid.

### SUBSCRIPTION RATES

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## Items of Personal Interest

Board member Ben F. Muirheid, Assistant Professor of Agricultural Engineering, was one of the judges at the Illinois State Plowing Contest at DuQuoin in August.

Word has been received of the death of Professor J. Raymond Carroll's father in Biloxi, Mississippi. Mr. Carroll was one of the oldest civilian employees of the Air Force. Back in the early days of air mail he was a superintendent in Maywood. Later he was stationed at Chanute Field at the time that Professor Carroll went to high school and the University of Illinois.

President Royce Johnson spent the last two weeks of August attending a short course at Massachusetts Institute of Technology, Cambridge, Massachusetts.

For those interested, the all items B. L. S. Consumer Price Index for July was 117.0; for June 116.2 and for May 115.4. The rise in the past two months is greater than any two months in the last three years. Beginning with June 1953 the figure was 114.0 with the year end showing a figure of 114.9. During 1954 the price ranged from a high of 115.2 in January (also in July) to a low of 114.3 in December. In 1955 the high figure was 115.0 in November and the low was 114.2 in both April and May. In 1956 the first four months' prices were: January 114.6; February 114.6; March 114.7; and April 114.9.

## Employment Practices Criteria

Printed copies of the employment practices criteria adopted by the National Society of Professional Engineers are now available from the National Society headquarters, 2029 K Street, N. W., Washington, D. C.

Single copies of the 23-page booklet may be obtained for 25 cents each. Prices for quantity orders are: 20 cents each for 10 to 49 copies; 15 cents each for 50 to 99 copies; and 10 cents each for 100 or more.

Printed in check-list format, the criteria cover specific categories of engineering career development. The criteria suggest the responsibilities of the employer to his professional employees, and the latter's responsibilities to the employer.

Topics included are recruitment, indoctrination, professional development of the individual, salaries, engineering titles, personnel practices, and termination policies.

The criteria were developed by the Engineer-in-Industry Subcommittee of the Employment Practices Committee of the National Society.

## KLASSEN REPORTS FROM JAPAN

Aboard Kogane Maru  
Beppu, Japan  
August 21, 1956

Dear Skeet:

Greetings from Japan. I am here on a World Health Organization assignment as consultant to the Minister of Health to recommend legislation, program, policies and administration of a national stream pollution control (there is none now). Am traveling all over the country seeing rivers, industries and cities. A most interesting and profitable experience combined with a broad "education" in life in the Orient. I'm becoming quite accustomed to sitting on the floor, kimonos, etc.

The construction activity, night and day, is amazing and it is a rare sight to see any evidence of war damage. The people are most hospitable, very industrious and have what I call "construction curiosity," that is, willing to try new ideas.

From here (September 5) to Formosa as a consultant to the Director of Reconstruction, re. water and sewerage projects; thence to Hongkong, Manila and back to North Borneo to see some of the projects I recommended two years ago which are now under construction. From there to Sarawak (actually part of Indonesia) in the South China Sea where I'll serve as consultant to the "White Rajah" on the sanitation for the capital city of Kuching. And returning through Malaya, Siam, India, Pakistan, Egypt, Rome, Switzerland, France—will be back on the job the last week in October. I have and expect to take many colored pictures. Regards to everyone.

"Sayonara,"

KLASSEN

## PEORIA AREA AUXILIARY

The Ladies' Auxiliary of the Peoria Area Chapter was entertained in the home of Auxiliary President Mrs. Dwain M. (Carolyn) Wallace in August.

After a short business meeting, plans were made for a picnic for the families of the members of the Peoria Area Chapter in August. A tea is planned for prospective members for September.

The balance of the afternoon was spent playing cards, with the prize being won by Mrs. Elsa Mundelius.

The Auxiliary has a dual reason for enjoying the Wallaces' hospitality. This past summer their home was air conditioned and, also, Mrs. Wallace is noted for her exceptional and beautiful flower decorations.

A very military major at an overseas post was discussing the program with a troupe of show girls sent out to entertain the men.

"And," said the major, "at 1700 hours, if you like, you girls can mess with the enlisted men."

"Sure," answered a blonde, "but we'll have to get something to eat first."



# MATHEMATICS INCENTIVE IDEA

(Submitted by Central Illinois Chapter)

This year the Central Illinois Chapter made its 3rd Annual Mathematics Award in the Decatur High School. The idea for this award was originated by Fred Tratzik and the first awards were made in May 1954 when he was Chapter President.

The awards consist of one \$25 Savings Bond (First Place) and a \$10 check (Second Place). The recipients are senior students chosen by the faculty members at the High School. The monetary awards were presented during Awards Day Ceremonies at the High School. As a follow-up this year, we presented Certificates of Award to the winners at our Chapter meeting in May.

Our Chapter meeting in May is annually devoted to high school students interested in engineering careers. This year we had thirty of them (including ten sophomore students from Millikin University) as our guests.

To show the encouraging results we have obtained with these small endeavors, the following table is presented:

ENROLLMENT IN ADVANCED MATHEMATICS COURSES  
AT DECATUR HIGH SCHOOL

COURSE	ENROLLMENT OR ELECTION BY YEAR		
	SEPT. 1954	SEPT. 1955	SEPT. 1956
Geometry I.....	302 (1.00)	324 (1.07)	336 (1.12)
Algebra III.....	95 (1.00)	114 (1.20)	160 (1.69)
Trigonometry.....	49 (1.00)	62 (1.27)	68 (1.39)
Total Enrollment.....	1976 (1.00)	2084 (1.05)	2234 (1.13)

Taking 1954 as the base year (1.00) the increased enrollments are shown for the 1955 year and pre-registration (elections) for the September 1956 school year. The increases are moving along at higher rates than the total enrollment is. So, we feel that perhaps our award idea is responsible, at least in part, for the ground gained.

We wish to point out that this is an isolated example in one high school and only three years old. There are at present three high schools in Decatur and will soon be five. The need here for expanding our activities in this direction is clear. This information is being passed along for what it may be worth.

The idea of forming some sort of an organization for students under the sponsorship of the society in Decatur High School has been discussed with interested members of the faculty. They are very receptive to the idea and anxious to have one formed. It is at this point that we appeal to the Future Engineers of America Committee for guidance and information. This Chapter is willing to aid in the formation of such organizations in all of the local high schools. It is proposed that such be made available before the start of the school year this fall.

## About the Illinois Award

The Illinois Award Committee, a committee of the Board of Direction of I.S.P.E., functions each year to select the name of the recipient of The Illinois Award. This Award is presented to an engineer who has contributed to his profession in an outstanding manner. The contribution may be in the form of an outstanding technical paper or, as in recent years, outstanding contribution to the engineering profession in his civic responsibilities, leadership in the engineering field, or contribution to his Society by some means or another.

The presentation of the Award is made by the President of I.S.P.E. at the Banquet during the Annual Meeting of the Society. It is a fitting manner to recognize an outstanding engineer each year.

The selection of the recipient of the Award is made in the following manner. The names of numerous candidates are received by the Committee together with a resumé of the candidate's background as the justification of his consideration for the Award.

From the names submitted, the Committee selects nominees by majority vote. It is from this list of selected nominees that a final selection is made and reported to the Board of Direction.

The 1956-1957 Illinois Award Committee consists of six members of I.S.P.E. each member of which serves for a period of three years. Each year two members retire and new members are appointed by the President. The present committee members and Annual meeting their terms expire are:

Mr. William S. Gray (72), Joliet, Chairman  
Mr. Robert M. Roy (72), Aurora  
Mr. Raymond G. Brichler (73), Belleville  
Mr. C. L. Calkins (73), Lake Bluff  
Mr. R. E. Greenfield (74), Decatur  
Mr. Merton M. Memler (74), Dixon

Members of I.S.P.E. who may wish to present the name of an engineer they believe has contributed in an outstanding way may present his name to the Committee through any of the Committee members or through the office of I.S.P.E. for forwarding to the attention of the Award Committee.

Each name submitted to the Committee should be accompanied by a complete and detailed explanation of the manner of contribution of the candidate to justify his selection as a nominee for the Illinois Award. Names submitted should reach the Committee not later than October 1, 1956, for adequate consideration.

Risking the perils of death, the valiant hero had rescued the fair maiden and now, he was holding her in his arms.

"Listen, big boy!" she said, "you're not holding me for ransom, are you?"

"Not me," replied the hero. "Let Ransom get his own women."



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## Obituaries

### LANGDON PEARSE

Langdon Pearse (S '12) died on July 20, 1956 in his home at No. 3 Golf Lane, Winnetka.

He was born in Boston, Massachusetts on November 12, 1877, received his A.B. from Harvard in 1899, B.S. in Civil Engineering from Massachusetts Institute of Technology in 1901 and an M.S. in 1902.

His early experience consisted of several positions on water supply projects in New England and New York. From 1904 to 1907 he was Assistant Engineer of Water Works and Sewers in Columbus, Ohio. In 1907 and 1908 he was Assistant Engineer for Peoples Water Company of Oakland, California.

In February, 1909 he became an Assistant Engineer of the Sanitary District of Chicago. Later he was promoted to Division Engineer, and from 1921 until the time of his death he was Sanitary Engineer for the Metropolitan Sanitary District of Greater Chicago.

He was responsible for development of artificial sewage treatment to supplant the dilution method which had been used by the Chicago Sanitary District in the early part of the century. These studies were made through pilot plants set up to operate on various types of sewage, including domestic, packing house waste, cannery waste, corn products waste and paint waste. The design of the Sanitary District's great sewage treatment works was based largely on data obtained from these pilot plants.

Mr. Pearse was also a prolific writer for technical publications and professional societies. His memberships included many technical societies, Phi Beta Kappa, the University Club and Indian Hill Club.

One of his last public appearances was at the Chicago Chapter family picnic which was held on Saturday, July 9, at Skokie Play Field. At the picnic Mr. Pearse was one of those who were specially honored by the chapter.

### CLIFFORD A. ASHLEY

Clifford A. Ashley, a lifetime resident of Wheaton, Illinois, and owner of the Wells Engineering Company of Geneva, Illinois, passed away in the Geneva Community Hospital, August 24th.

Joining the I. S. E. in 1917 and the N. S. P. E. in 1946, he was active in the organization of the DuKane Chapter of which he was a charter member.

While in partnership with E. Roy Wells, Mr. Ashley served many of the Chicago west suburban communities as City Engineer, and as a consultant to cities throughout northern Illinois. He was a brother-in-law of the late Arthur Webster, a past president of the Illinois Society of Engineers.

Funeral services were conducted by the minister of the Episcopal Church in the Kampp Funeral Home of Wheaton, August 27, and were attended by representative groups of the DuKane Chapter members, the American Legion and Masonic Lodge.

### JOSEPH A. MOORE

Joseph A. Moore (S '21, Life Member '47) died on June 26, 1956. Mr. Moore was born in New York on August 10, 1868, and went to work as a civil engineer for the City of Chicago in 1904. He was elected Vice President of the Illinois Society in 1927 and was President in 1928. He was chairman of various committees and was active in the management of the Illinois Society for many years. Funeral services were held in Oak Park and he was buried in Fort Dodge, Iowa.

The old roads where two cars could barely pass are being replaced by super highways on which six cars can easily collide.

It's a nice feeling when you're able to park on what's left of the other fellow's nickel.



# Know the Members of Your Board of Direction

*The governing body of the Illinois Society is the Board of Direction. The Illinois Society Constitution gives them their power; it reads, Article VII, Section 2, "The management of the Society shall be vested in a Board of Direction . . ." Article IX, Section 5, reads, "The Board of Direction shall be vested with the general conduct of the affairs of the Society and between Annual Meetings shall act on all matters concerning the Society. It shall approve the execution of all contracts and the expenditures of moneys except as provided in Article X. It shall have the sole power to grant and revoke charters of Chapters."*

*From the above you see that the Board of Direction of the Illinois Society is the group of men who make the decisions of policy and who say "yes" and "no" to any matter of Society business.*

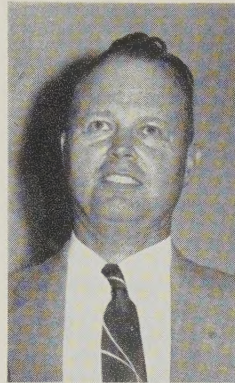
*To help you know the members of the Board, pictures of the members and thumbnail sketches will be run in this column, spaces permitting. There is no order or reason for the way the individuals are presented.*

(Photos by C. Dale Greffe furnished at no cost to the Society)

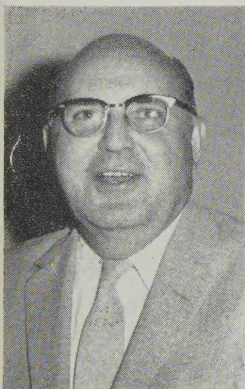


Ben F. Muirheid (N '48) is an Assistant Professor of Agricultural Engineering at the University of Illinois and has been on the staff since 1946. Ben was born in Niantic, Illinois, on November 7, 1915. He received his Bachelor of Science in Agricultural Engineering in 1943 and his Master of Science degree in June, 1956. He was a Naval officer during World War II, serving at Brooklyn and Norfolk

Navy yards, repairing ships in the Pacific and in Japanese occupation. He has a wife and a son and daughter, teenagers, and a son six. He is athletic minded and at the present time is serving as president of his local baseball Little League. He is also interested in bowling and photography. Recently he designed and built a large addition to his home. Ben did the carpentry, brick laying and electric wiring himself. He has been active in Champaign County Chapter affairs and is serving his first term as a member of the Board of Direction.

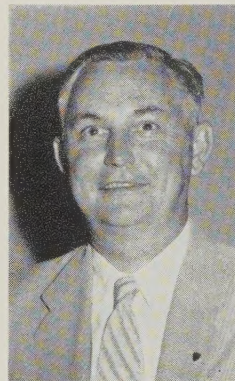


J. D. Voorhees (S '46, N '52) has his own office as a consulting engineer in Alton. He was born September 9, 1905, in Alton, received a B.S. in Civil Engineering in 1926, and has been doing design and field work in public, commercial, and industrial building, and also petroleum refining facilities, chemical, rubber, and plastic plants. He is registered both as a structural and a professional engineer and holds registration as a professional engineer in Pennsylvania. He has a wife and one son who is studying engineering at the University of Illinois.



A. J. Feickert (S '28, N '47) is Design Engineer for District 6 of the Illinois Division of Highways in East St. Louis. He was born in Belleville on August 12, 1901. He earned a B.S. degree at the University of Illinois in 1924 and went to work for the Illinois Division of Highways upon graduation. He was elected Vice President of St. Clair Chapter in 1952 and served as its President in 1953. Art's hobbies are cook-

ing and club work. He has been active in both the Elks and the Masonic Lodge. He is "chief cook" at the annual outing given in Mike Krause's Missouri club house. He and Mrs. Feickert live in Belleville and he is serving his first term on the Board of Direction.



Arthur C. Kessell (S '43, N '46) is a Mechanical Engineer in the Division of Architecture and Engineering for the State of Illinois. Art was born on June 23, 1905, in Chicago, and received his education at Lewis Institute and Armour Institute. He was employed by Sargent and Lundy in Chicago, worked for the Revere Copper and Brass Co., and 1936-37 was Assistant Superintendent of Construction on the

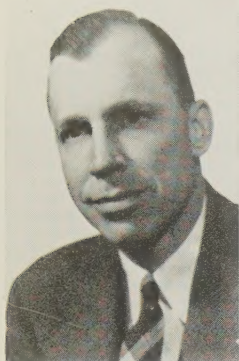
University of Illinois medical and dental buildings in Chicago. Since 1937 he has been with the Division of Architecture and Engineering in Springfield. He has two daughters, one married and one who will enter Carleton College in September. His extracurricular activities include golf, fishing, and bowling. Also, he is a handyman around the house. He has been active in Boy Scout work and Masonic work and is a member of the Grace Lutheran Church. He was Treasurer of Capital Chapter in 1950, Vice President and acting President in 1951, and is at present one of Capital's two members of the Board.



## New Dean at Northwestern

Harold B. Gotaas, Professor of Sanitary Engineering at the University of California, has been appointed Dean of Northwestern Technological Institute effective February 1, 1957.

He is a graduate of the University of South Dakota and holds advanced degrees from Iowa State and Harvard University.



Dean Gotaas

Before going to the University of California in 1946 he was in the service of the United States Army from 1942 to 1946 assigned to the Division of Health and Sanitation of the Institute for American Affairs. He was president of the division from 1945 to 1946. He has traveled extensively in South America and is the recipient of the Legion of Merit and

has been decorated by the governments of Colombia, Haiti, Chile and Bolivia.

The Illinois Society welcomes Professor Gotaas and hopes that he will find his new position both interesting and a challenge.

Then there's the construction foreman who got sort of a conditional raise in salary—when hell freezes over . . .

## MEETING OF EGYPTIAN CHAPTER

By F. PERSSON, *Secretary*

Egyptian Chapter met at the Motel Marion in Marion on February 14th for a dinner meeting. This meeting was for the avowed purpose of getting the chapter back on its feet. New officers were elected, Paul Hall of Johnston City to serve as President; Donald Ball of Cairo as Vice President, C. R. Riseling of Murphysboro as Chapter Representative, and Fred Persson of Carterville serving as Secretary-Treasurer. A typical Southern Illinois outburst of weather held the attendance down, but a dozen men braved the elements. The chapter was fortunate to have in attendance Mr. Richard Jones, newly appointed chief engineer of the Ordill area, who spoke briefly on his activities as former state president of the Missouri Society of Professional Engineers. The small group had a lively discussion period and passed several measures which should help the future activities of the chapter.

Pipe Pedlar's young wife to husband: "If we miss two payments on the washing machine and one on the refrigerator, we'll have enough for a down payment on a television set . . ."

Engineer, introducing redhead to a friend: "Dave, in my time I've been married to a blonde, a brunette and a redhead—I'd like you to meet her."

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# From the 1955 Illinois Society Annual Reports

## ILLINOIS ENGINEERING COUNCIL REPORT FOR 1955

The four I.S.P.E. representatives attended the annual meeting of the I.E.C. held at Chicago on December 10, 1955. Thirty-five directors and four guests were present.

A matter of considerable interest to all engineers and especially to I.S.P.E. is the difficulty we are experiencing in Illinois in regard to keeping a fully appointed Examining Board. I.E.C., with the cooperation of member societies, has been active in requesting Judge Binks to fill the vacancies on the Board. Vacancies were filled by firm appointment but certain reappointments were not made except by inference inasmuch as their names appeared on the list of Board Members. These three were carry-overs from September, 1954, and since then the terms of three more board members have expired as of September, 1955. Miss Binks was contacted in November, 1955, and at the time of the annual meeting of I.E.C. no action had been taken. I.E.C. conducted a new canvass for additional names to be placed on the approved I.E.C. list for candidates for the Examining Board. Accordingly, the names of James G. Clark and Norman H. Gundrum have been added. Getting appointments and re-appointments made to this Board is still a problem and a concern to the engineers in Illinois.

A special committee on policy regarding presentation of registered professional engineers' certificates was made during the summer of 1955. This Committee's report resulted in a prolonged discussion during which various opinions and suggestions were presented. A motion was passed to appoint a committee to contact both member societies and members of the Professional Engineers' Examining Committee to determine the most desirable course of action for the Illinois Engineering Council to take. The action of the Chicago Chapter of the I.S.P.E. in presenting certificates this past summer was recognized as a success and that such presentation of certificates should be continued.

The application of the Midwest Section, Institute of Traffic Engineers for membership in I.E.C. was approved.

The treasurer's report showed expenditures of \$665.78 in excess of receipts. The payment of \$750.00 for legal fees contracted for in opposing Bills 638 and 669 accounts for the deficit. The balance as of November 30, 1955, was \$2,225.86. The Finance Committee recommended the purchase of series J or K Government Bonds to the extent of \$1,000. This was approved.

The Past President's Award Certificate was awarded to John Harrington. 1954 Illinois Engineering Council President.

The nominating committee submitted the following slate of officers for the year 1956:

President—Ellis Danner (A.A.E.)

First vice president—Daniel K. Chinlund (A.I.E.E., Chicago Section)

Second vice president—John G. Duba (I.S.P.E.)

Secretary-treasurer—Marvin J. Maxwell (A.S.M.E., Chicago Section)

Executive Committee:

W. R. Marston (W.S.E.)

J. S. Martin (A.I.E.E., Central Illinois Section)

K. L. Brown (I.A.H.E.)

The above slate was elected by a unanimous ballot. March 10, 1956.

K. C. HOEGLUND

You always hear about the man who hit the jackpot, but the guys who built it up remain unknown.

Education fails when it does not show the present generation how to distinguish a bright new idea from an old mistake proved harmful many centuries ago.

I would much rather have a strong man for my enemy than a weak one; almost all the mischief in the world is done by weakness, which employs treacherous cunning to compensate for its lack of power.—SYDNEY J. HARRIS

Every day the world's facilities improve for transmitting intelligence, but the intelligence doesn't seem to keep pace with the facilities.—*New Outlook*

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## MAY PROFESSIONAL ENGINEERING EXAMINATION

A study of the list of those who passed the May professional engineering examination shows that the percentages are almost identical to those who passed the examination and the percentage of those who reside in the various chapter areas. There are 138 names on the list, and dividing these names by chapter areas shows the concentration of engineers in the Chicago metropolitan area.

Ambraw . . . . .	2	Madison County . .	6
Capital . . . . .	3	Peoriarea . . . . .	2
Central Illinois . .	8	Rockford . . . . .	8
Champaign County	4	Rock River . . . . .	2
Chicago . . . . .	57	St. Clair . . . . .	6
DuKane . . . . .	19	West Central . . . .	1
Egyptian . . . . .	4	No Chapter . . . . .	9
Illinois Valley . . .	0		
Joliet . . . . .	3		
Lake County . . . .	4	Total . . . . .	138

To prove the insatiable curiosity of his fellowmen, an Irish actor scurried around town one night, writing four meaningless letters on various and sundry board fences, walls, walks, and signs. He proved his point, all right. The town worked itself into a lather trying to figure out what the letters meant. In time these letters came to mean anything that was puzzling. The letters? Q U I Z.  
—Link



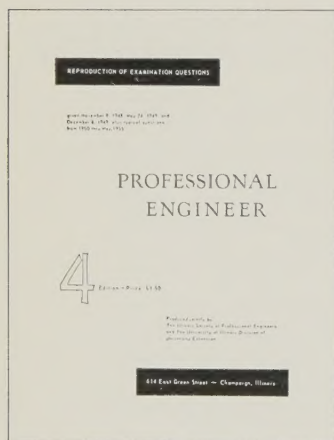
Presentation of Certificate of Recognition to outstanding engineering student at Joliet Junior College. The Engineer's Club of Joliet Junior College was entertained by the Joliet Chapter during its Engineers Week celebration on February 22nd. Left to right: Lloyd C. Gilbert, President Joliet Chapter; Drew W. Castle, Faculty sponsor of the Engineers Club; Paul E. Holmstrom, recipient of the Certificate of Recognition.

The man dashed into his wife's bedroom, red with anger. "Miserable woman! I know everything!"

"Don't exaggerate so," she remarked calmly. "When was the Battle of Gettysburg?"

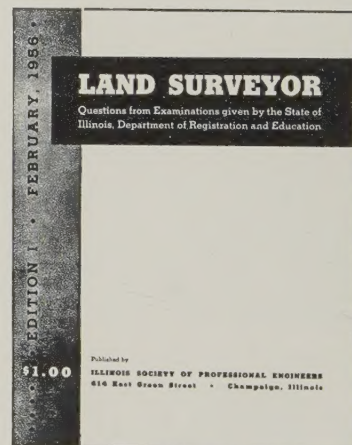
Luck is what happens when preparation meets opportunity.—*Typo Graphic*

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from the which as men of course do seek to re-  
ceive countenance and profit, so ought they of  
duty to endeavor themselves by way of amends  
to be a help and ornament thereunto.

Sir Francis Bacon

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tion is the one whose intelligence has been so well  
trained that he is able to adapt himself to any situation,  
and whose point of view has been so humanized by his  
education that he will be a good person in any job or  
calling. These qualities are the result only of a liberaliz-  
ing education.—*And Madly Teach*



## Engineering Societies Personnel Service, Inc.

Est. 1918

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84 E. Randolph St.  
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**DETROIT**  
100 Farnsworth Ave.  
Te 3-1090

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**Sales Engineer.** E.E., 35, 2 yrs. sales & application engineering elect. rotating mach'y. 2 yrs. business administrative exp. 2 yrs. design & project eng. elect. machinery. \$78-8400, Midwest. (550 IE)

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## ESPS ON NEW BASIS

The Chicago office of the Engineering Societies Personnel Service, Inc., has made a study recently of the registrations and job opportunities in their current or active files. This resulted in some interesting figures which is believed will be of interest to the engineering and scientific professions.

Since the first of the year, the Chicago office of the Engineering Societies Personnel Service, Inc., has averaged better than two and one-half job opportunities for every man registered with us. This indicates that it is the ideal time to register with the Chicago office, for any person who is interested in seeking new or better employment. By the time this article is published, the Chicago office will have converted to 100% Employer Pays Fees.

Of the men's cards studied, 7% were over 55; 21% were under 35 and under \$7,000 a year; 24% were under 35 and over \$7,000 a year; and 48% were all others. This latter group can be divided into three main categories, namely: those who are sincerely trying to improve their economical and professional standing, those who are shoppers with no real interest in making a change, and those who have very specific and rigid requirements which eliminate most employers who might show some interest in them.

Of the jobs studied, 44% were at salaries of \$7,000 a year and lower; 44% at salaries ranging from \$7,000-\$10,000 a year; and 12% over \$10,000 a year.

The heaviest demand is 44% of the jobs where only 21% of the applicants are available. Only 25% of the employers still expect the applicant to pay his own fee and, of course, wonder why their recruiting programs fail.

Taking the above figures into consideration, the Chicago office of Engineering Societies Personnel Service, Inc., requested our National Board of Directors for permission to convert to the 100% **EMPLOYER PAYS FEES** plan. We received their approval to immediately convert to the plan as fast as possible and by the time this is published, conversion will be complete.

A democratic society must willingly tolerate a lusty percentage of intellectual discontent or it will cease to be dynamic. A free society must have unceasing self-criticism to remain free.—*Christian Science Monitor*

Officer (to gas company manager pacing sidewalk at 3 a.m.): "What are you doing here?"

Gas Man: "I forgot my key, officer, and I'm waiting for my children to come home and let me in."